

Product Specification Sheet

Monkey (Rhesus) Serum Albumin Antibodies

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|------------------|--|---------------------|
| Cat. # ALBMK22-M | Mouse Monoclonal Anti-Monkey (Rhesus) serum albumin ascites | SIZE: 100 ul |
| Cat. # ALBMK22-C | Monkey (Rhesus) albumin protein control for Western | SIZE: 100 ul |

Albumin is the protein of the highest concentration in serum or plasma. Albumin transports many small molecules in the blood (for example, bilirubin, calcium, progesterone, and drugs). It is also of prime importance in maintaining the osmotic pressure of the blood. Albumin is synthesized by the liver. Albumin performs many functions including maintaining the "osmotic pressure" that causes fluid to remain within the blood stream instead of leaking out into the tissues. Liver disease, kidney disease, and malnutrition are the major causes of low albumin. A diseased liver produces insufficient albumin. Diseased kidneys sometimes lose large amounts of albumin into the urine faster than the liver can produce it (this is termed nephrotic syndrome). Plasma albumin concentration is an important indicator of nutritional status, and low concentrations pre-surgery increase the risk of post-operative wound dehiscence, seroma formation and infection. Albumin levels are also dependant on the state of hydration of the body. A person that is dehydrated will have an artificially low albumin level. This returns to normal when the dehydration is corrected. Albumin fluctuates so widely because it is very sensitive to changes in hydration of the body.

Source of Antigen and Antibodies

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|-----------------------------------|--|
| Antigen | Purified Monkey (Rhesus) serum albumin |
| Ab Host/type | Mouse, monoclonal IgG2a (cat #ALBMK22-M), form ascites |
| 2-ab | Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available) |
| Non immune IgG -ve control | Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control |

#ALBMK22-C Western blot +ve Control

Monkey (Rhesus) serum albumin was partially purified by a combination of salt fractionation and Blue-Sepharose affinity column. For Western blot +ve control (Cat # ALBMK22-C) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of ALBMK22-C for good visibility with antibody Cat # ALBMK22-M or other antibodies. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the ALBMK22-C solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative

purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly

Form & Storage

Ascites

| | |
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| 100 ul/vial solution | 50 ul/vial lyophilized powder |
| supplied in PBS, pH 7.4, 0.05% sodium azide | |
| Reconstitute powder in PBS in 100 ul water. | |

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting 1:1000-1:3000 using Chemiluminescence technique).

ELISA (0.1-1 ug/ml; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: not tested. We recommend the use of 1:50 to 1:500 using formalin-fixed paraffin embedded tissues or 4% paraformaldehyde fixed frozen sections.

Specificity & Cross-reactivity

The antibody is specific for monkey serum with no reactivity with other serum proteins. The antibody crossreact with albumin from gibbon, baboon, and human serum albumins. Weak cross-reaction is observed with horse serum albumin. Antibodies have no cross reaction with bovine, cat, chicken, dog, donkey, goat, guinea pig, hamster, marmoset, pig, pigeon, rabbit, rat, sheep, or turkey serum albumin or with chicken and turkey egg albumin. Semi-pure monkey albumin (#ALBMK22-C) can be used positive control for Western.

*This product is for In vitro research use only.

Related material available from ADI

Monkey Albumin, CRP, IgG, IgM, IgA, and IgE ELISA kits

Human, rat, human Albumin, CRP, IgG, IgM, IgE, and other serum protein ELISA kits

ALBMK22-M-C 110405A

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com